



2022-2023

MaChTazine

Materials Science &
Chemical Technology

Issue 2

Pasta Night
07/11/2022

Introduction

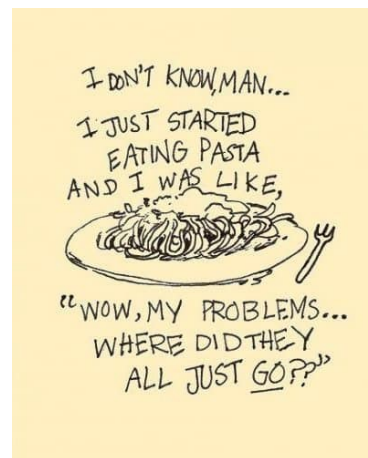
Hey everyone!

Hopefully you all enjoyed our first few events during the last month!

This MaChTazine shows off the pictures from the BBQ, the Brunch for the 2nd bachelors and even the Bowling Night we had last week. But don't worry if you missed any of these events, the Pasta Night is coming up soon! This event is for both members and non-members, so make sure to bring all your friends. Don't forget to create an account on our site (macht.ugent.be) to be able to sign up for the next events.

In this issue we will also include some delicious pasta recipes you can try out yourself. This way you can get totally addicted to pasta in time for our Pasta Night. This month we also have not one but two companies of the month, so double the chance to win a prize. Make sure to also follow us on Instagram and Facebook to get notified of any upcoming events!

Your MaChT Press - Yana & Arthur



Companies of the Month

For the ones new to MaChT, each of our **companies of the month** offers an **epic gift** to a person who completes the assignment next to the company's text. This assignment will usually be a puzzle but it can also be something completely different. To participate, simply finish the assignment, **tear or cut out the page** and deposit it in one of the **MaChT boxes placed in buildings 46, 70A or 125**. An innocent hand will draw/choose the winner from the successful contenders after the given deadline. Good luck!

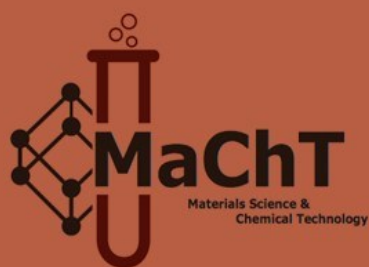
Overview of coming events

Pasta Night	7 November 2022
Game Night	21 November 2022
Cake Day	5 December 2022

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Next event



Pasta Night

When? Monday 7 November 2022
18h00 – 22h00

Where? Den Boot, Rerum Novarumplein 180C
9000 Ghent

Sign up! macht.ugent.be

Members: €6 + 2 drinks

Non-members: €8 + 2 drinks

Deadline: 4 November



Picture time: BBQ



Picture time: Brunch 2nd Bachelor



Picture time: Bowling Night



Pasta recipes:

MACHTIGE CARBONARA PASTA

1. Whisk eggs, parmesan cheese and black pepper in a bowl. Set aside.
2. Cook the bacon over medium heat until crisp. Remove from pan and add garlic. Cook 1 minute.
3. Cook pasta in salted water until al dente. Drain reserving 1 cup of pasta water.
4. Place hot pasta in pan with garlic and toss to coat. Quickly remove from heat and add egg mixture.
5. Using tongs, mix well adding pasta water if needed. Stir the bacon and add parsley/parmesan.

Ingredients:

- 400g spaghetti
- 6 slices bacon
- 2 cloves garlic
- 3 eggs
- 1 cup parmesan cheese



PASTA WITH MACHT-BALLS

1. First make the sauce, heat the olive oil in a medium saucepan over medium-low heat, add the onion and garlic and fry for a few minutes until softened but not coloured. Stir in the passata and set aside. Simmer the sauce for 12-15 minutes until it has thickened.
2. Next, make the meatballs. In a large bowl, mix the minced beef, Parmesan, garlic, egg yolk, breadcrumbs, parsley together and season, then mould into 12 meatballs (roughly 50g each).
3. Heat the olive oil in a frying pan over medium-low heat, add the meatballs and cook, shaking the pan occasionally, for 4-5 minutes or until browned all over. Heat the sauce and stir the meatballs into the pan. Cover and simmer, over medium heat, for a further 15 minutes, until the sauce has thickened and the meatballs are cooked through.
4. While the meatballs cook, bring a large pan of salted water to the boil and cook the tagliatelle for 2-3 minutes until al dente. Drain and serve with the tomato meatballs, sprinkled with parsley and extra Parmesan.



For the meatballs:

- 500g lean minced beef
- 50g Parmesan
- 2-3 garlic cloves
- 1 egg yolk
- 30g breadcrumbs
- 2 tbsp olive oil
- 400g fresh tagliatelle

For the sauce:

- 6 tbsp olive oil
- 1 small onion
- 2 garlic cloves
- 680g tomato passata

Company of the Month: Zeeland Refinery



Zeeland Refinery (ZR) processes crude oil to fuels and raw materials for the chemical industry. The refinery is a joint venture between oil companies TotalEnergies (55%) and Litasco (45%).

Our refinery is situated in the industrial area of Vlissingen-Oost in Zeeland. We have a distillation capacity of 180.000 barrels of crude oil per day and a hydrocracking unit, one of the largest in Europe, with a capacity of 68.000 barrels per day. ZR is technically one of the most efficient refineries and performs as one of the best in Western Europe. We have 420 employees and more than 250 employees from permanent maintenance contractors also work in the refinery.

Innovation plays a major role in our refinery in modernisation and expansion projects that are constantly being carried out. Because of this we have, for example, been able to more than double the capacity of the hydrocracker, our catalytic conversion unit, compared to the original 'name plate' capacity of 205m³/h. The continuous improvement of reliability and therefore availability of the units is also of huge importance for the refinery's profitability. As a chemical engineer, you could offer a significant contribution to these developments.

We are regularly looking for chemical engineers and have positions available in the Engineering, Production Planning, Production, Environment and Safety departments. In many cases, as a chemical engineer graduate you would initially begin working as a process engineer. After gaining experience in various units you would move to other departments, even in supervisory and management positions. You would always be working in an international environment with the possibility of an international career with our shareholders, TotalEnergies and Litasco.

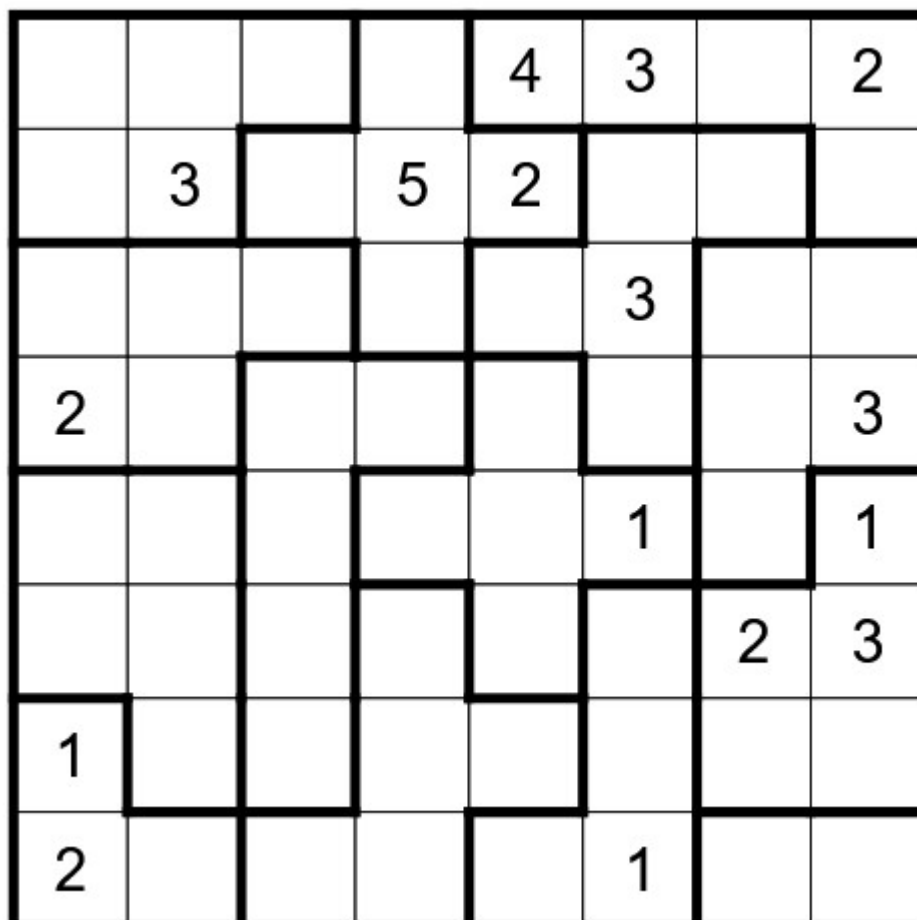
More information: <http://www.zeelandrefinery.nl>



Puzzle of the Month:

By request from one of the professors, one of the puzzles this month is a **Tectonic**. The rules are simple:

- Each zone must be filled in with numbers equal to the amount of squares in a zone, so if a zone has 3 squares 1, 2 and 3 must be filled in, if it has 5 squares then 1, 2, 3, 4 and 5 must be filled in.
- The same numbers cannot touch each other, not even diagonally.



Tear or cut this page out and deposit it in one of our boxes located in buildings 46, 70A or 125 in Zwijnaarde by the **18th of November** for a chance to win the awesome prize offered by **Zeeland Refinery**! Good luck!

Name: _____

Email: _____

Company of the Month:

ExxonMobil



Exxon Mobil Corporation is the world's largest publicly traded international oil and gas company, best known in the Benelux for its Esso and Mobil brands. With activities in nearly all countries around the world, ExxonMobil prides itself on its commitment to meeting the world's growing demand for energy in an economically, environmentally and socially responsible manner. The company strives towards operational excellence with an expertly talented workforce, strong financial resources and cutting edge technology. Our customers are both global and local ranging from major chemical companies to the thousands of customers a day who visit our Benelux service stations.



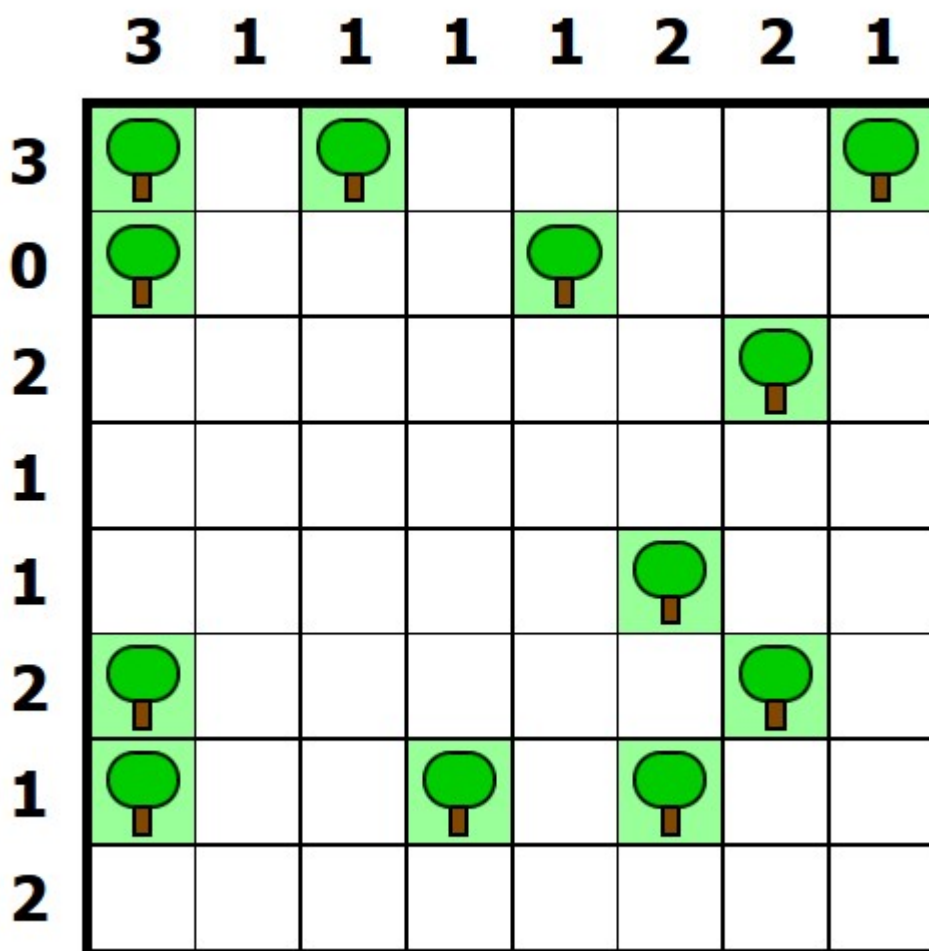
We are more than just one of the largest energy companies. ExxonMobil is the start of what could be an incredible journey. It's the place where people think independently, take initiative, grow to their full potential and shape the future of energy. We strongly believe that diversity drives innovation so our inclusive workplaces help everyone thrive, regardless of their background. Safety and wellbeing of our employees is at the heart of everything we do. Our skills and competencies are built through training and work experiences in a wide range of assignments. With the use of cutting edge technology ExxonMobil holds an industry leading inventory of resources to help meet our societies growing energy demands.

More information: <http://www.exxonmobil.be/en-BE>

Puzzle of the Month:

Place a tent next to every tree! The rules for placing the tents are:

- Every tree needs a tent directly next to it (so not diagonally)
- Tents cannot touch each other (horizontally, vertically or diagonally)
- A tent can touch multiple trees and vice versa, but each tent only belongs to one tree
- The numbers show how many tents should be in each column or row



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Name: _____

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